

Align two sequences

Mon Mar 21 03:24:27 "GMT 2005

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/usr/tmp/seq1.100209.sca : 432 aa
>/usr/tmp/seq1.100209 [Unknown form], 432 bases, 432 aa vs. 019957-019920; SEQ ID NO: A
>/usr/tmp/seq2.100209 [Unknown form], 446 bases, 446 aa 019957-019400; SEQ ID NO: 16
scoring matrix: , gap penalties: -12/-2
80.2% identity; Global alignment score: 2357

      10      20      30      40      50
/usr/t MFQPLLDAFIESAPLKWFNLPP-LKIAVANWGDRIKKFKKSVLYFILSQHYITLH
      ::::::::::: . . . :::::::::::
/usr/t MFQPLLDAYVESASIERKMAKSPPLKIAVANWGDRIKFKKSVLYFIFSQRYYIALH
      10      20      30      40      50      60

      60      70      80      90     100     110
/usr/t RNPDKPADIVFGNPLGSARKILSYQNAKRVVYTGNEVNFNLFDAIGFDELDPRDYL
      . . . . . :::::::::::
/usr/t QNPNEFSDLVFSNPLGSARKILSYQNAKRVVYTGNEVNFNLFDAIGFDELDPRDYL
      70      80      90     100     110     120

      120     130     140     150     160     170
/usr/t RMPLYYAYLHYKAEIWNVTTSFYKLQPDLSYALKKPSHHFKENHPNLCAVNNESDPLKR
      :::::::::::
/usr/t RMPLYYDIAHKAESVNDTTSFYKLKDWLSYTLKKPSHQFKNHPNLCAVNNESDPLKR
      130     140     150     160     170     180

      180     190     200     210     220     230
/usr/t GFASFVASNFPNAPRNAPYFALNAIEPVAGGGSVKNTLGYNVKNKSEPLSQYKFNLCFEN
      : :::::::::::
/usr/t GVSFVASNANAPMRNAPYDALNSIEPTVGGSVKNTLGYNVKNKSEPLSQYKFNLCFEN
      190     200     210     220     230     240

      240     250     260     270     280     290
/usr/t TQGYGYVTEKIIDAYFSHTIPIYWGSPSAKDFNPKSPVNVHDFNMFDIAIDYIRYLHMH
      :::::::::::
/usr/t SQGYGYVTEKIIDAYFSHTIPIYWGSPSAKDFNPKFVNVHDFNMFDIAIDYIKYLHMH
      250     260     270     280     290     300

      300     310     320     330     340     350
/usr/t PNAYLDMHYENPLNTIDGKAYFYQHLSPFKILDFFKTILENDTIYHDMF--FIFYRLDNE
      :::::::::::
/usr/t PNAYLDMLYENPLNLDGKAYFYQDLSFKILAFKXKTIENLNTIYHKSTSPFMWECOLDE
      310     320     330     340     350     360

      360     370     380     390     400
/usr/t PSVSIDGLRVNYDDLRLVNYDDLRLVNY-----ERLLQNASPLLEL
      : :::::::::::
/usr/t PLASIDDLRLVNYDDLRLVNYDDLRLVNYDDLRLVNYERLLQNASPLLEL
      370     380     390     400     410     420

      410     420     430
/usr/t SQNTTFKIYKAYQKSLPLLRAIRRWVKK
      :::::::::::
/usr/t SQNTSFKIYKAYQK--PI-KNPYPYCAP
      430     440

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Elapsed time: 0:00:00

Exhibit A